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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/611,877	07/07/2000	Pawan Goyal	4461	7399

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EXAMINER	
CHANG, SUNRAY	
ART UNIT	**PAPER NUMBER**
2121	

DATE MAILED: 11/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/611,877	GOYAL ET AL.	
	Examiner	Art Unit	
	Sunray Chang	2121	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *07 July 2000*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-25* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-25* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *07 July 2000* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *12604 22404 61104*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. This office action is in responsive to the paper filed on October 21, 2004.

2. Claims 1 – 25 are presented for examination.

Claims 1 – 25 are rejected.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. **Claims 1 – 25 are rejected** under 35 U.S.C. 102(e) as being anticipated by Keith E. Moore et al. (U.S. Patent No. 6,189,046, and referred to as Moore hereinafter).

4. **Regarding independent claims, 1, 11, 18, 23, and 24**, Moore teaches,

- A method in a computer system for associating identifiers with virtual processes. [Col. 17, Line 9 – 24]
- For each virtual process [503], starting a separate first process [501]; [Fig. 10B]

- Associating each first process with a separate virtual process identifier; [Col. 18, Line 33 – 36]
- For each virtual process [Col. 18, Line 35 – 36], originating additional processes [virtual process record, Col. 18, Line 33 – 36] included in the virtual process from the first process [ObjectReferences, Col. 18, Line 33 – 36]; and
- Associating all processes [virtual process record, Col. 18, Line 33 – 36] that originate from each first process [ObjectReferences, Col. 18, Line 33 – 36] with the associated virtual process identifier [virtual process pointer, Col. 18, Line 34 – 35]; and
- A computer readable medium on which the program codes are stored. [Program and Library, 251a and 251b, Fig. 3]
- Wherein a virtual process is comprised of a single system initialization process and all processes originating therefrom. [Col. 25, Line 9 – 27]

5. **Regarding dependent claim 2**, Moore teaches,

- Each virtual process comprises a virtual private server [RPC_server, Col. 11, Line 9 and Fig. 6],
- The virtual private server comprising a plurality of processes that together provides the functionality of a dedicated server application program. [417a, 417b, 417c, 417d, Fig. 6]

6. **Regarding dependent claim 3**, Moore teaches,

- The first process comprises a system initialization process. [Col. 4, Line 61 – 64]

7. **Regarding dependent claims 4, 12, and 19**, Moore teaches,

- Storing an entry in a data structure in computer memory; [Col. 17, Line 29 – 32]
- The entry comprising a virtual process identifier [Col. 17, Line 15] and a process identification number of the first process [Fig. 11].

8. **Regarding dependent claims 5, 13, and 20**, Moore teaches,

- Intercepting [destroyed, Col. 29, Line 3] system calls [incoming call, Col. 29, Line 2] that create processes [Col. 28, Line 66 – 67]; and
- Associating [point to, Col. 18, Line 37] a process [virtual process record, Col. 18, Line 38] being created with the virtual process identifier [virtual process pointer, Col. 18, Line 34 – 35] of a process [ObjectReference, Col. 18, Line 34] that made the system call [point to, Col. 18, Line 37].

9. **Regarding dependent claims 6, 14, and 21**, Moore teaches,

- Associating [point to, Col. 18, Line 37] a process [virtual process record, Col. 18, Line 38] being created with the virtual process identifier [virtual process pointer, Col. 18, Line 34 – 35] of a process [ObjectReference, Col. 18, Line 34] that made the system call [point to, Col. 18, Line 37]; and
- Wherein intercepting comprises replacing [replaced, Col. 18, Line 28] a pointer [virtual process pointer, Col. 18, Line 33] to the system call with pointer to the stored object code, such that calling the system call causes the object code to execute. [Col. 18, Line 33 – 38]

10. **Regarding dependent claims 7, and 17**, Moore teaches,

- Inserting the object code into the operating system. [Col. 25, Line 18 – 27]

11. **Regarding dependent claims 8, 15, and 22**, Moore teaches,

- Loading a module into a running operating system kernel, the module comprising the object code. [Col. 25, Line 18 – 27]

12. **Regarding dependent claims 9, 10, 16,and 25**, Moore teaches,

- Loading the first process into computer memory [RPC_transport is loaded, Col. 25, Line 9] by a modified loader program [JAVA's class loader, Col. 25, Line 27];
- Starting the first process by the modified loader program; [Col. 25, Line 11 – 15] and
- Storing an entry in a data structure in computer memory [load program code, Col. 25, Line 26 – 27] by the modified loader program [JAVA's class loader, Col. 25, Line 27];
- The entry comprising a virtual process identifier [virtual process identifier, Col. 26, Line 9] and a process identification number [object identifier, Col. 26, Line 9] of the first process [object, Col. 26, Line 4].

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Meth (U.S. Patent No. 6,282,703) discloses Intercepting calls, a first link step, a wrapper library, and a system kernel.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sunray Chang whose telephone number is (571) 272-3682. The examiner can normally be reached on M-F 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Knight can be reached on (571) 272-3687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-746-3506.

Sunray Chang
Patent Examiner
Group Art Unit 2121
Technology Center 2100
U.S. Patent and Trademark Office

Anthony Knight
Supervisory Patent Examiner
Group 3600

October 21, 2004